



25G SFP28 Optical Transceiver Module, Single-Mode 10 km for HPE

25GBASE-LR (LC) Single-Mode Port (SMF), 10 km (6.2 mi.), Wavelength 1310 nm, Compatible with Hewlett Packard Enterprise

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SFP28 25G SMF Optical Transceiver for Long-Range Single-Mode Fiber Networks - Compatible with Cisco and MSA

The 25G SFP28 Optical Transceiver Module from Intellinet Network Solutions is designed to deliver reliable high-speed connectivity for modern enterprise, campus, telecom, and cloud network environments. Supporting the IEEE 802.3by 25GBASE-LR Ethernet standard, it enables data transfer rates up to 25 Gbps over single-mode fiber connections with transmission distances of up to 10 km (6.2 mi.). Its compact SFP28 form factor makes it ideal for high-density network infrastructures requiring scalable and efficient 25G connectivity.

Optimized for Long-Distance 25G Ethernet Connectivity

Featuring one LC duplex single-mode fiber port and operating at a wavelength of 1310 nm, the transceiver is engineered for stable long-distance optical communication. The LR design uses advanced wavelength multiplexing technology to support high-bandwidth data transmission over standard duplex single-mode fiber, making it suitable for backbone, aggregation, and core network applications across large campuses, datacenters, and telecom infrastructures.

Compatible with Your HPE Equipment

The module is HPE-compatible to ensure seamless interoperability with a wide range of switches, routers, and networking equipment from that leading manufacturer. Equivalent to the HPE Aruba JL486A transceiver model, it provides a reliable and cost-effective solution for expanding or upgrading existing 25G network deployments while maintaining compatibility with established hardware ecosystems.

Advanced Monitoring and Reliable Operation with DDM / DOM

Integrated digital diagnostics monitoring (DDM) and digital optical monitoring (DOM) functions provide real-time access to critical operating parameters such as temperature, voltage, and optical signal levels. This allows administrators to monitor transceiver performance and simplify network maintenance and troubleshooting in demanding enterprise and datacenter environments.

Durable Design for Enterprise and Datacenter Environments

A fully metallic housing minimizes electromagnetic interference (EMI) and enhances durability for stable operation in high-performance networking applications. Hot-plug support allows the transceiver to be installed or replaced without shutting down connected equipment, reducing maintenance downtime and improving service continuity in mission-critical network infrastructures.

Features:

- Supports IEEE 802.3by 25GBASE-LR Ethernet with data rates up to 25 Gbps
- One LC duplex single-mode fiber port
- Compatible with switches and routers from HPE (Hewlett Packard Enterprise)
- Supports fiber transmission distances up to 10 km (6.2 mi.)
- Wavelength: 1310 nm
- Equivalent to HPE Aruba transceiver model JL486A
- Supports digital diagnostics monitoring (DDM) / digital optical monitoring (DOM)
- Low EMI due to fully metallic housing
- Suitable for high operating temperatures up to 70°C (158°F)
- Supports hot-plugging
- Ideal for enterprise, campus, telecom, datacenter and cloud network deployments including backbone and aggregation networks
- Fully NDAA-compliant
- Three-year warranty

For more information on Intellinet products, consult your local dealer or visit www.intellinet-network.com.

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Specifications:

Standards and Certifications

- CE
- UKCA
- FCC
- RoHS
- REACH
- NDAA
- IEEE 802.3by
- SFF-8472

General

- Form factor: SFP28
- Max. data rate: 25.78 Gbps
- Wavelength: 1310 nm
- Max. transmission distance: 10 km (6.2 mi.)
- Connector: duplex LC
- Media: SMF
- Transmitter type: DML laser
- Receiver type: PIN/TIA
- TX power: -7 to 2.0 dBm
- Minimum receiver power: -12 dBm
- Power budget: 5 dB
- Receiver overload: 2 dBm
- Power consumption: 1.2 W (max.)
- Power requirement: 3.3 V
- Extinction ratio: >3.5 dB
- DDM/DOM: supported
- Modulation (electrical): 25G NRZ
- Modulation (optical): 25G NRZ
- CDR (Clock and Data Recovery): TX & RX Built-in CDR
- Bit Error Ratio (BER): 5E-5

Compatible Brands

- HPE (Hewlett Packard Enterprise) / HPE Aruba

Physical

- Dimensions (L x W x H): 57 x 13.9 x 8.5 mm (2.24 x 0.55 x 0.33 in.)
- Net weight: 20 g (0.7 oz.)
- Gross weight: 35 g (1.23 oz.)

Environmental

- Operating temperature: 0 to 70°C (32 - 158°F)
- Operating humidity: 0 to 85% RH, non-condensing
- Storage temperature: -40 to 85°C (-40 to 185°F)

Package Contents

- 25G SFP28 Optical Transceiver Module



